

Title (en)

USES OF A CONTINUOUS FIBER BUNDLE IN METHODS FOR PRODUCING FIBER-REINFORCED RESIN MOLDING MATERIAL

Title (de)

VERWENDUNG EINES KONTINUIERLICHEN FASERBÜNDELS IN VERFAHREN ZUR HERSTELLUNG VON FASERVERSTÄRKTEM HARZFORMMATERIAL

Title (fr)

UTILISATION D'UN FAISCEAU DE FIBRES CONTINUES DANS DES PROCÉDÉS DE PRODUCTION DE MATÉRIAUX DE MOULAGE EN RÉSINE RENFORCÉE PAR DES FIBRES

Publication

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Application

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Priority

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- JP 2016078937 A 20160411
- EP 16821457 A 20160707
- JP 2016070117 W 20160707

Abstract (en)

Provided is the use of a continuous fiber bundle in methods for manufacturing a fiber-reinforced resin molding material by which, when the fiber-reinforced resin molding material is manufactured, separated fiber bundles can be supplied to a cutting machine in stable condition while avoiding the influence of meandering of the fiber bundles or slanting or meandering of filaments occurring in the fiber bundles.

IPC 8 full level

**B29B 15/12** (2006.01); **D01D 11/02** (2006.01); **B29K 101/10** (2006.01); **B29K 105/06** (2006.01)

CPC (source: CN EP US)

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Citation (applicant)

- JP 2015136084 A 20150727 - FUJITSU LTD
- JP 2016078937 A 20160516 - ITO HIROKAZU
- US 2012213997 A1 20120823 - WANG CHEN-SHIH [US], et al
- JP 2006219780 A 20060824 - TORAY INDUSTRIES

Citation (search report)

- [A] US 2012213997 A1 20120823 - WANG CHEN-SHIH [US], et al
- [A] JP H01163219 A 19890627 - TOYOTA CENTRAL RES & DEV, et al

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**EP 3321054 A1 20180516**; **EP 3321054 A4 20180822**; **EP 3321054 B1 20200819**; CN 107848146 A 20180327; CN 107848146 B 20200922; CN 112078056 A 20201215; CN 112078056 B 20220719; EP 3722061 A1 20201014; EP 3722061 B1 20210818; EP 3750679 A1 20201216; EP 3750679 B1 20210818; EP 3875239 A1 20210908; EP 3875239 B1 20240320; EP 4035860 A2 20220803; EP 4035860 A3 20221019; ES 2887827 T3 20211228; ES 2887828 T3 20211228; HU E055737 T2 20211228; JP 2017218717 A 20171214; JP 2020186510 A 20201119; JP 2020186511 A 20201119; JP 2021028432 A 20210225; JP 2022031341 A 20220218; JP 2023027359 A 20230301; JP 6315101 B2 20180425; JP 7006734 B2 20220124; JP 7044148 B2 20220330; JP 7201063 B2 20230110; JP 7509193 B2 20240702; JP WO2017006989 A1 20170706; US 11518116 B2 20221206; US 11919255 B2 20240305; US 2018194082 A1 20180712; US 2021245448 A1 20210812; US 2023050464 A1 20230216; WO 2017006989 A1 20170112

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**EP 16821457 A 20160707**; CN 201680039647 A 20160707; CN 202010921119 A 20160707; EP 20178020 A 20160707; EP 20189574 A 20160707; EP 21171166 A 20160707; EP 22163187 A 20160707; ES 20178020 T 20160707; ES 20189574 T 20160707; HU E20189574 A 20160707; JP 2016070117 W 20160707; JP 2016548745 A 20160707; JP 2017133132 A 20170706; JP 2020126737 A 20200727; JP 2020126738 A 20200727; JP 2020187934 A 20201111; JP 2021201144 A 20211210; JP 2022205751 A 20221222; US 201615741615 A 20160707; US 202117216294 A 20210329; US 202217978204 A 20221031